

1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/603,713

DATE: 09/05/2001

TIME: 17:36:21

Input Set : A:\Omrf1821.app

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3 <110> APPLICANT: Tang, Jordan J.N.
 4 Hong, Lin
 5 Ghosh, Arun K.
 7 <120> TITLE OF INVENTION: Inhibitors of Memapsin 2 and Use Thereof
 9 <130> FILE REFERENCE: OMRF 182
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/603,713
 12 <141> CURRENT FILING DATE: 2000-06-27
 14 <150> PRIOR APPLICATION NUMBER: 60/141,363
 15 <151> PRIOR FILING DATE: 1999-06-28
 17 <150> PRIOR APPLICATION NUMBER: 60/168,060
 18 <151> PRIOR FILING DATE: 1999-11-30
 20 <150> PRIOR APPLICATION NUMBER: 60/177,836
 21 <151> PRIOR FILING DATE: 2000-01-25
 23 <150> PRIOR APPLICATION NUMBER: 60/178,368
 24 <151> PRIOR FILING DATE: 2000-01-27
 26 <150> PRIOR APPLICATION NUMBER: 60/210,292
 27 <151> PRIOR FILING DATE: 2000-06-08
 29 <160> NUMBER OF SEQ ID NOS: 31
 31 <170> SOFTWARE: PatentIn Ver. 2.1
 33 <210> SEQ ID NO: 1
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 35 <212> TYPE: DNA
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Does Not Comply
Corrected Diskette Needed

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105 <223> OTHER INFORMATION: Amino Acids 28-48 are remnant putative propeptide
106 residues
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109 <223> OTHER INFORMATION: Amino Acids 58-61, 78, 80, 82-83, 116, 118-121,
110 156, 166, 174, 246, 274, 276, 278-281, 283, and
111 376-377 are residues in contact with the OM99-2
112 inhibitor
114 <220> FEATURE:
115 <223> OTHER INFORMATION: Amino acids 54-57, 61-68, 73-80, 86-89, 109-111,
116 113-118, 123-134, 143-154, 165-168, 198-202, and

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126      400-405, and 418-420 are C-lobe Beta Strands
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137          20          25          30
139 Glu Thr Asp Glu Glu Pro Glu Glu Pro Gly Arg Arg Gly Ser Phe Val
140          35          40          45
142 Glu Met Val Asp Asn Leu Arg Gly Lys Ser Gly Gln Gly Tyr Tyr Val
143          50          55          60
145 Glu Met Thr Val Gly Ser Pro Pro Gln Thr Leu Asn Ile Leu Val Asp
146          65          70          75          80
148 Thr Gly Ser Ser Asn Phe Ala Val Gly Ala Ala Pro His Pro Phe Leu
149          85          90          95
151 His Arg Tyr Tyr Gln Arg Gln Leu Ser Ser Thr Tyr Arg Asp Leu Arg
152          100          105          110
154 Lys Gly Val Tyr Val Pro Tyr Thr Gln Gly Lys Trp Glu Gly Glu Leu
155          115          120          125
157 Gly Thr Asp Leu Val Ser Ile Pro His Gly Pro Asn Val Thr Val Arg
158          130          135          140
160 Ala Asn Ile Ala Ala Ile Thr Glu Ser Asp Lys Phe Phe Ile Asn Gly
161 145          150          155          160
163 Ser Asn Trp Glu Gly Ile Leu Gly Leu Ala Tyr Ala Glu Ile Ala Arg
164          165          170          175
166 Pro Asp Asp Ser Leu Glu Pro Phe Phe Asp Ser Leu Val Lys Gln Thr
167          180          185          190
169 His Val Pro Asn Leu Phe Ser Leu Gln Leu Cys Gly Ala Gly Phe Pro
170          195          200          205
172 Leu Asn Gln Ser Glu Val Leu Ala Ser Val Gly Gly Ser Met Ile Ile
173          210          215          220
175 Gly Gly Ile Asp His Ser Leu Tyr Thr Gly Ser Leu Trp Tyr Thr Pro
176 225          230          235          240
178 Ile Arg Arg Glu Trp Tyr Tyr Glu Val Ile Ile Val Arg Val Glu Ile
179          245          250          255
181 Asn Gly Gln Asp Leu Lys Met Asp Cys Lys Glu Tyr Asn Tyr Asp Lys
182          260          265          270
184 Ser Ile Val Asp Ser Gly Thr Thr Asn Leu Arg Leu Pro Lys Lys Val
185          275          280          285
187 Phe Glu Ala Ala Val Lys Ser Ile Lys Ala Ala Ser Ser Thr Glu Lys

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191 305      310      315      320
193 Gly Thr Thr Pro Trp Asn Ile Phe Pro Val Ile Ser Leu Tyr Leu Met
194      325      330      335
196 Gly Glu Val Thr Asn Gln Ser Phe Arg Ile Thr Ile Leu Pro Gln Gln
197      340      345      350
199 Tyr Leu Arg Pro Val Glu Asp Val Ala Thr Ser Gln Asp Asp Cys Tyr
200      355      360      365
202 Lys Phe Ala Ile Ser Gln Ser Ser Thr Gly Thr Val Met Gly Ala Val
203      370      375      380
205 Ile Met Glu Gly Phe Tyr Val Val Phe Asp Arg Ala Arg Lys Arg Ile
206 385      390      395      400
208 Gly Phe Ala Val Ser Ala Cys His Val His Asp Glu Phe Arg Thr Ala
209      405      410      415
211 Ala Val Glu Gly Pro Phe Val Thr Leu Asp Met Glu Asp Cys Gly Tyr
212      420      425      430
214 Asn Ile Pro Gln Thr Asp Glu Ser Thr Leu Met Thr Ile Ala Tyr Val
215      435      440      445
217 Met Ala Ala Ile Cys Ala Leu Phe Met Leu Pro Leu Cys Leu Met Val
218      450      455      460
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239 <223> OTHER INFORMATION: Amino Acids 16-64 are a putative pro peptide
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257 Arg Ser Gly Leu Gly Gly Ala Pro Leu Gly Leu Arg Leu Pro Arg Glu
258      35      40      45
260 Thr Asp Glu Glu Pro Glu Glu Pro Gly Arg Arg Gly Ser Phe Val Glu

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269	Gly	Ser	Ser	Asn	Phe	Ala	Val	Gly	Ala	Ala	Pro	His	Pro	Phe	Leu	His
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285				180					185					190		
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293	Asn	Gln	Ser	Glu	Val	Leu	Ala	Ser	Val	Gly	Gly	Ser	Met	Ile	Ile	Gly
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296	Gly	Ile	Asp	His	Ser	Leu	Tyr	Thr	Gly	Ser	Leu	Trp	Tyr	Thr	Pro	Ile
297				245						250					255	
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300				260					265					270		
302	Gly	Gln	Asp	Leu	Lys	Met	Asp	Cys	Lys	Glu	Tyr	Asn	Tyr	Asp	Lys	Ser
303			275					280					285			
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309	305					310					315					320
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312					325					330					335	
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VERIFICATION SUMMARY

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 L:580 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22
 L:580 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
 L:597 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:23
 L:597 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:23
 L:597 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
 L:707 M:259 W: Allowed number of lines exceeded, <223> Other Information: